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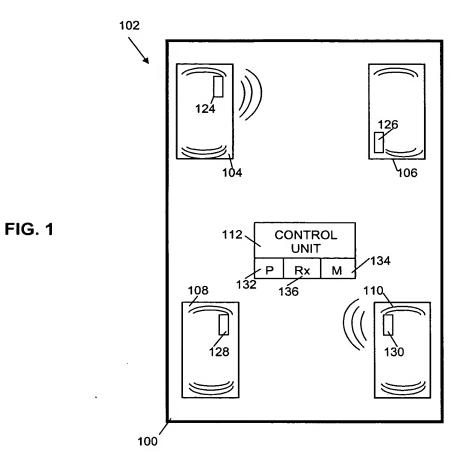
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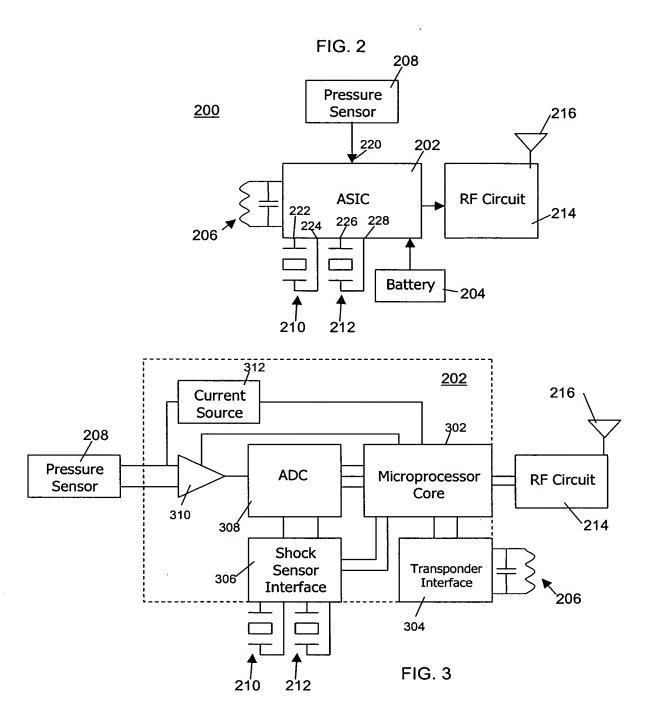
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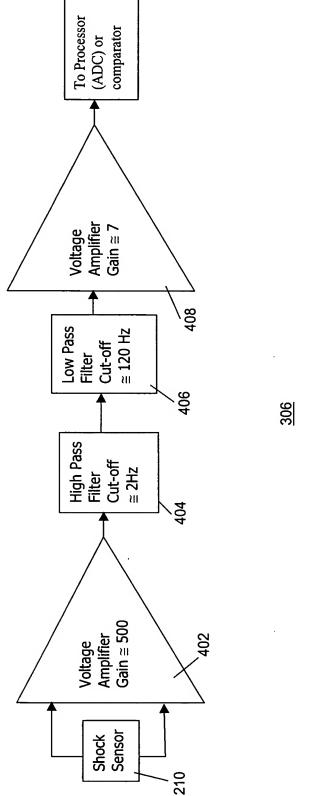
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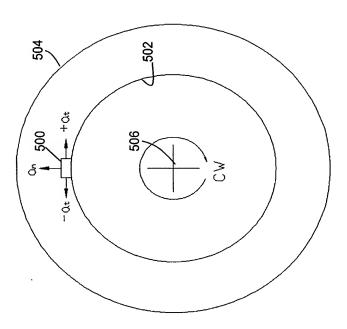




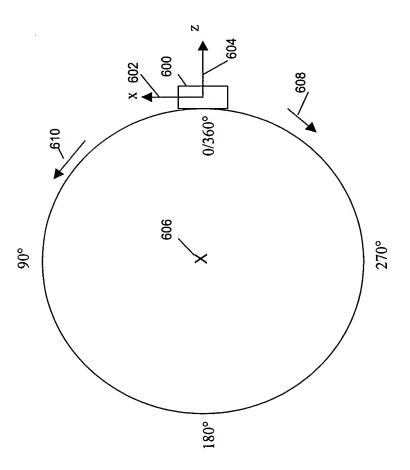
Patent Application for: MOTION DETECTION USING A SHOCK SENSOR IN A REMOTE TIRE PRESSURE MONITORING SYSTEM Inventors: Alan Kenneth McCall, et al. 3 of 27 Docket No.: 1981/689 Inventors: Alan Kenneth McCall, et al.



Patent Application for: MOTION DETECTION USING A SHOCK SENSOR IN A REMOTE TIRE PRESSURE MONITORING SYSTEM nventors: Alan Kenneth McCall, et al. 4 of 27 Docket No.: 1981/689



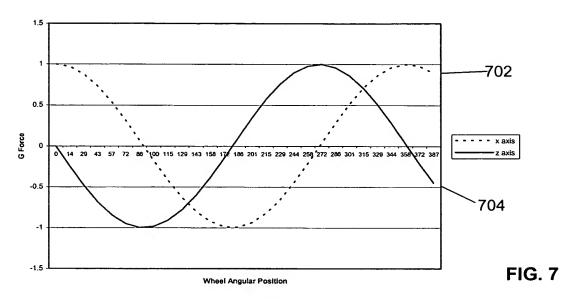




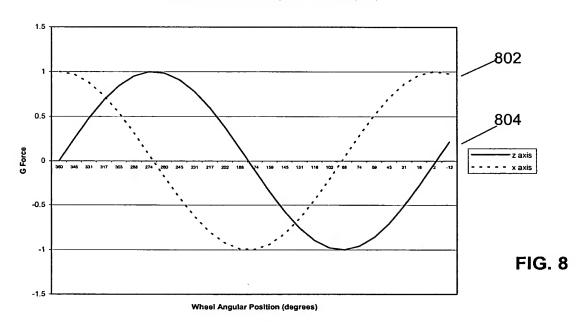
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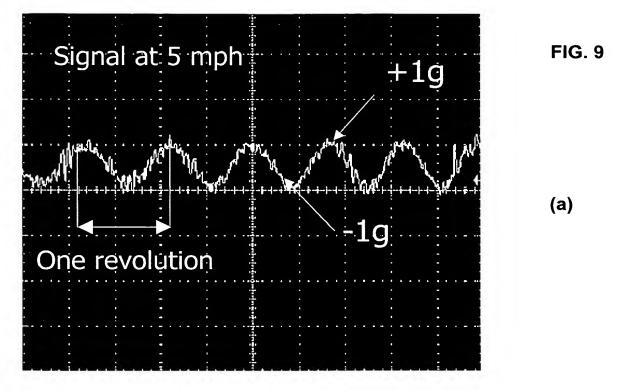
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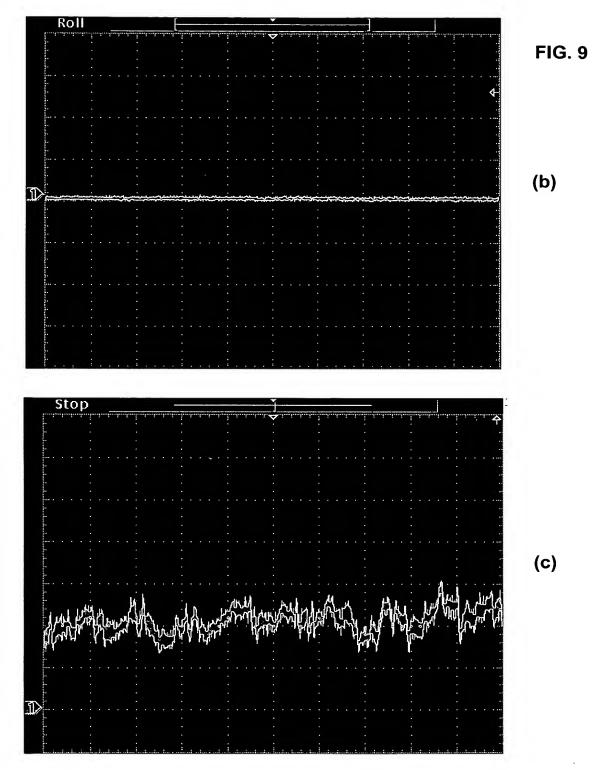
G Force vs Wh el Angular Position (CCW)



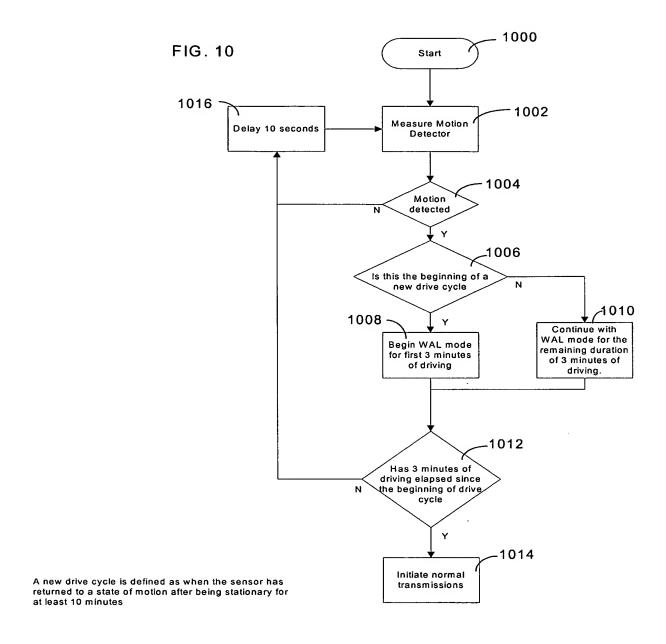
G Force vs Wheel Angular Position (CW)

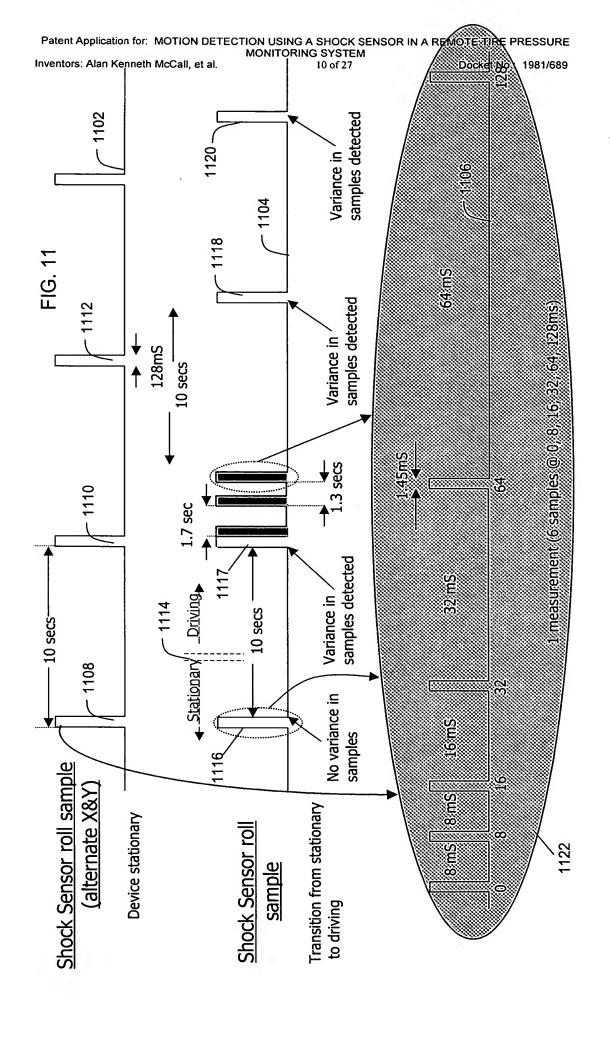






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End

STAGE 1 Sample Frequency

Determination

Sample Frequency

STAGE 2

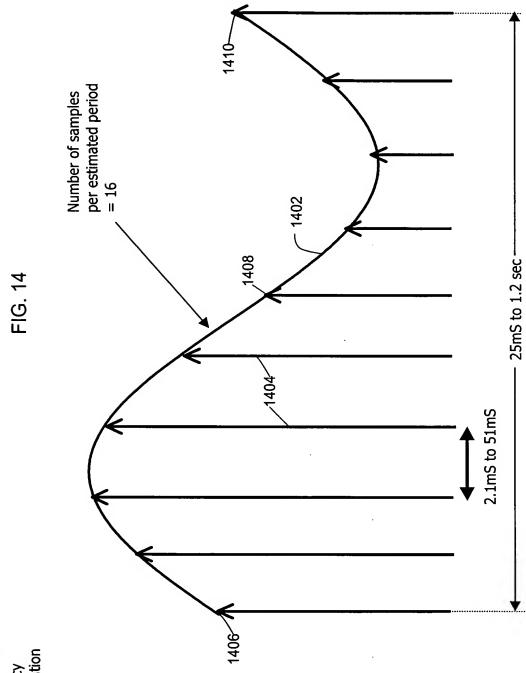
Confirmation

STAGE 3 Quadrature Sampling Shock Sensor roll

sample

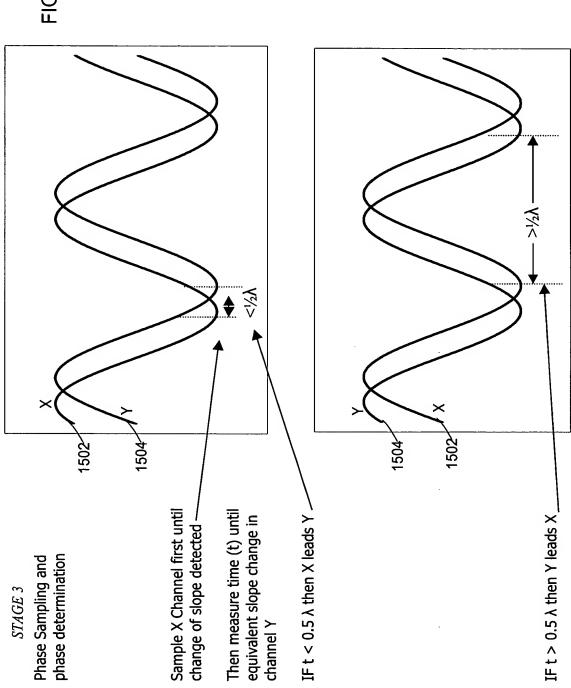
previous measurement

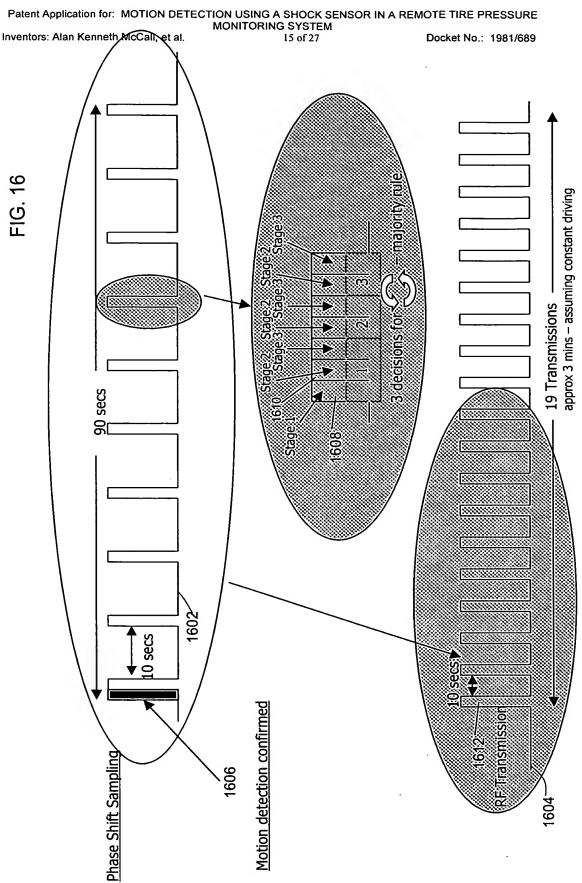
Sample variance in



STAGE 2 Frequency Confirmation

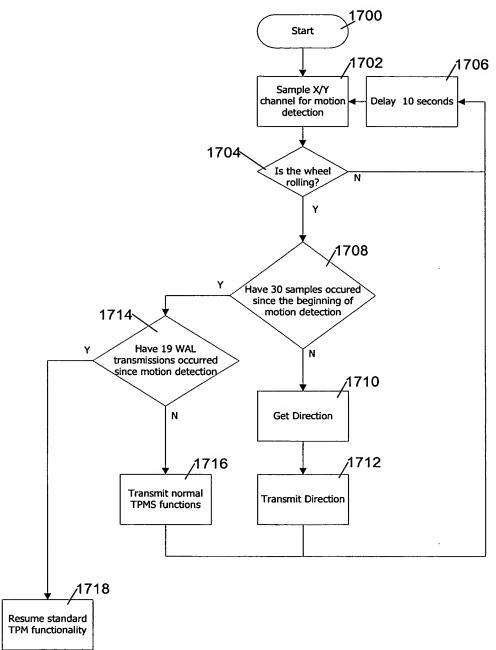


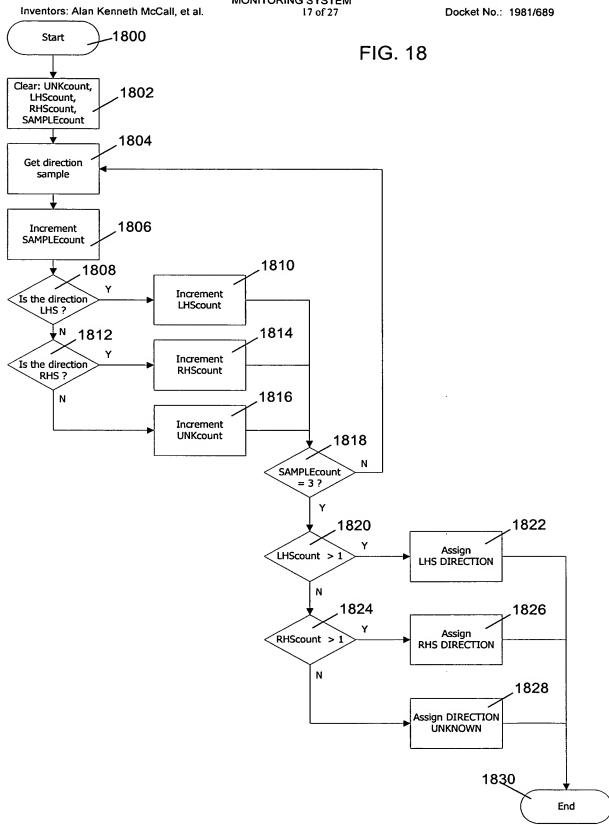




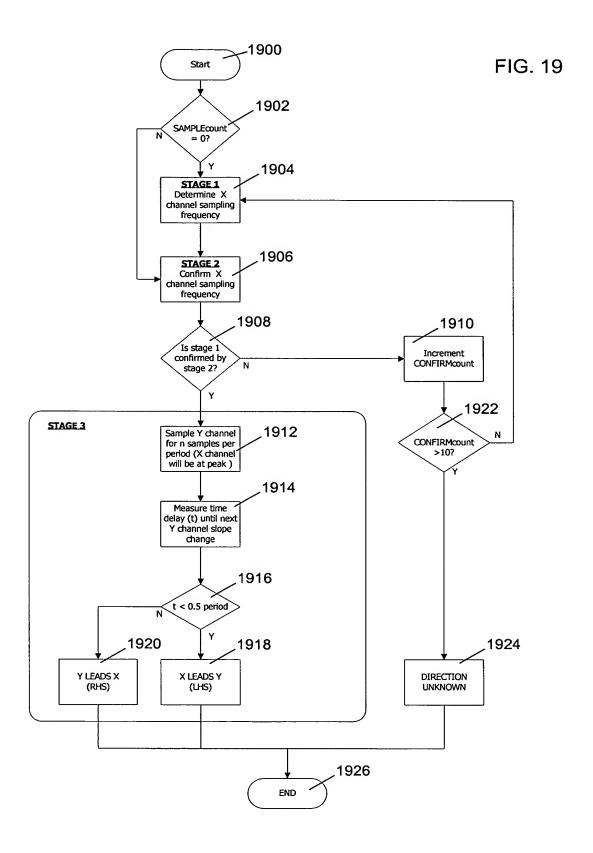
Inventors: Alan Kenneth McCall, et al. 16 of 27 Docket No.: 1981/689

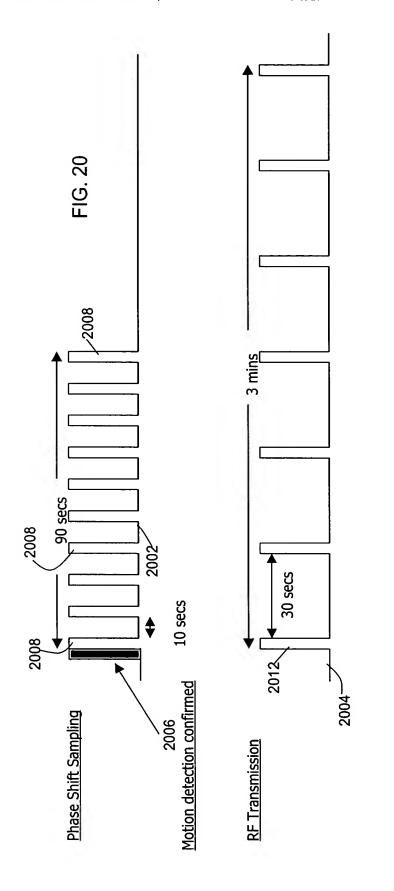
FIG. 17



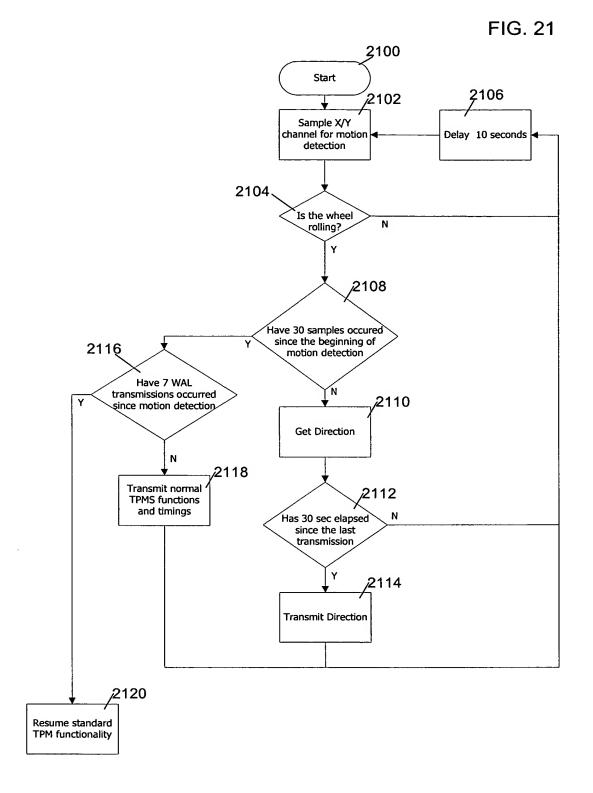


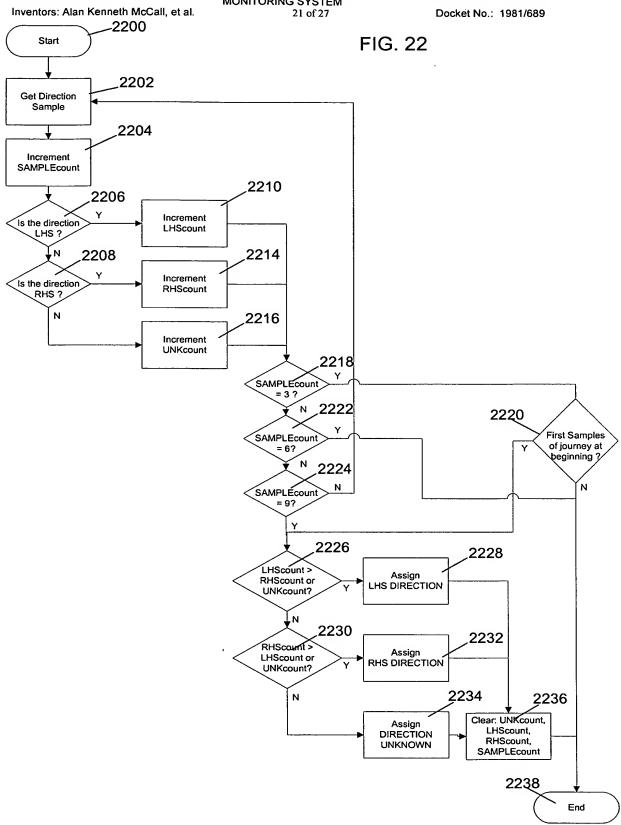
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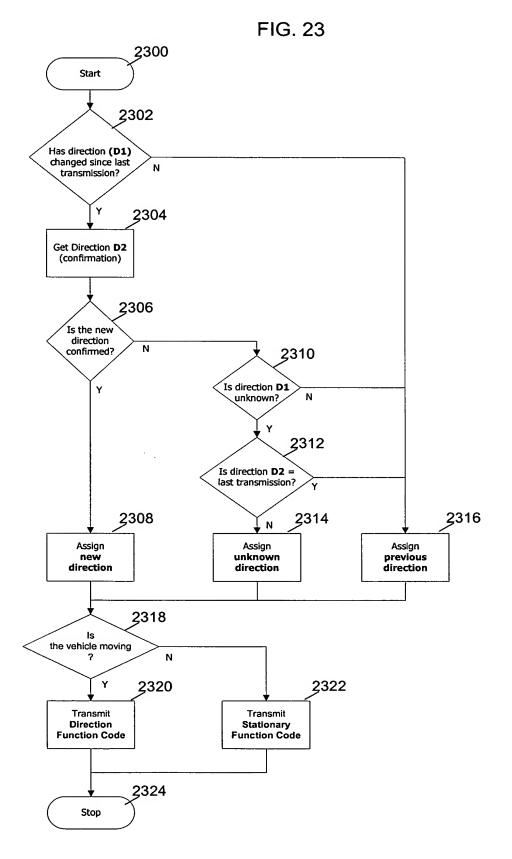
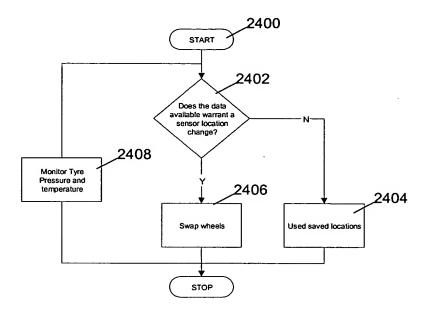
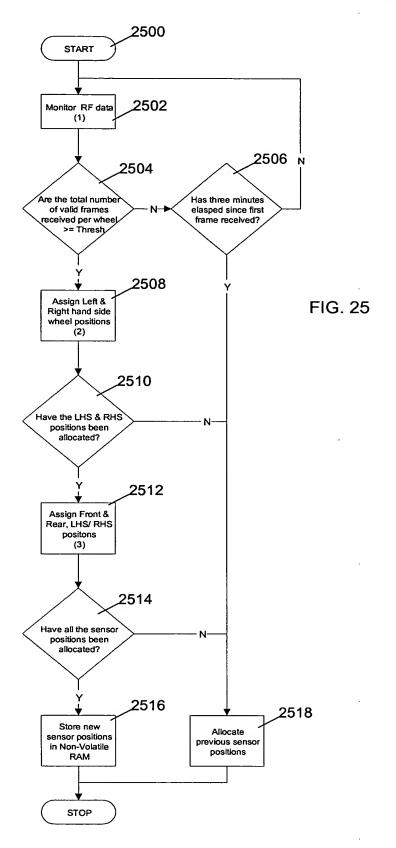
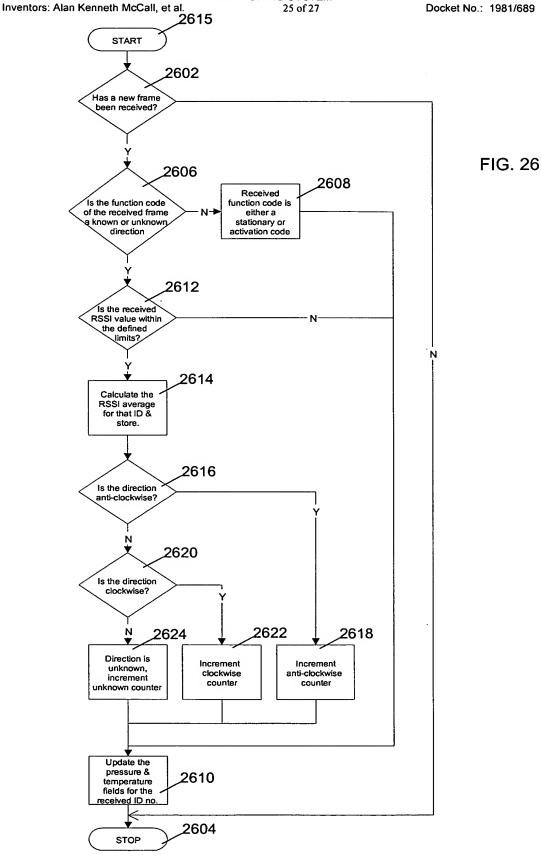


FIG. 24



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